

SEQUENCE LISTING

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<120> CYTOCHROME C PROTEIN AND ASSAY

<130> PA0394

<140> TO BE ASSIGNED

<141> 2006-06-19

<150> PCT/GB2004/005317

<151> 2004-12-17

<150> GB 0329353.7

<151> 2003-12-19

<160> 15

<170> PatentIn version 3.3

<210> 1

<211> 315

<212> DNA

<213> Homo sapiens

<400> 1

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ggagaggata cactgatgga gtatttggag aatcccaaga agtacatccc tggaacaaaa      240
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<210> 2

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2

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Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
20           25           30

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Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
35           40           45

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Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
50           55           60

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Leu Met Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro Gly Thr Lys
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Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
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Ala Tyr Leu Lys Lys Ala Thr Asn Glu
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<210> 3
<211> 1044
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<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

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aaacttaccc ttaaatttat ttgcactact ggaaaactac ctgttccatg gccaacactt 180
gtcactactc tctcttatgg tgttcaatgc ttttcaagat acccagatca tatgaaacgg 240
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aaagatgacg ggaactacaa gacacgtgct gaagtcaagt ttgaagggtga tacccttggt 360
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ttggaataca actataactc acacaatgta tacatcatgg cagacaaaca aaagaatgga 480
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cattatcaac aaaataactcc aattggcgat ggccctgtcc ttttaccaga caaccattac 600
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cttggtcttg taacagctgc tgggattaca catggcatgg atgaactata caaactcgag 720
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<210> 4
<211> 348
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic polypeptide

<400> 4

Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
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Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
50 55 60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
65 70 75 80
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
100 105 110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
115 120 125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
130 135 140
Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val
165 170 175
Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
180 185 190
Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
195 200 205
Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val
210 215 220
Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys Leu Glu
225 230 235 240
Asn Ser Thr Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met

	245		250		255
Lys Cys Ser	Gln Cys His Thr Val	Glu Lys Gly Gly Lys His Lys Thr			
	260	265	270		
Gly Pro Asn	Leu His Gly Leu Phe	Gly Arg Lys Thr Gly Gln Ala Pro			
	275	280	285		
Gly Tyr Ser Tyr Thr Ala	Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly				
	290	295	300		
Glu Asp Thr Leu Met	Glu Tyr Leu Glu Asn Pro Ala Lys Tyr Ile Pro				
	305	310	315	320	
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Asp Leu Ile	Ala Tyr Leu Lys Lys Ala Thr Asn Glu				
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide

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acagggtcagg cccctggata ctcttacaca gccgccaata agaacaaagg catcatctgg	180
ggagaggata cactgatgga gtatttggag aatcccgccca agtacatccc tggaacaaaa	240
atgatctttg tcggcattaa gaagaaggaa gaaagggcag acttaatagc ttatctcaaa	300
aaagctacta atgaggggtcg acccgggatg agtaaaggag aagaactttt cactggagtt	360
gtcccaattc ttgttgaatt agatggtgat gttaatgggc acaaattttc tgtcagtgga	420
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gaagatggaa acattcttgg acacaaattg gaatacaact ataactcaca caatgtatac	780
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gaagatggag gcgttcaact agcagaccat tatcaacaaa atactccaat tggcgatggc	900

cctgtccttt taccagacaa ccattacctg tccacacaat ctgccctttc gaaagatccc 960
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<210> 6
 <211> 347
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 6

Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
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Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
 20 25 30

Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
 35 40 45

Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
 50 55 60

Leu Met Glu Tyr Leu Glu Asn Pro Ala Lys Tyr Ile Pro Gly Thr Lys
 65 70 75 80

Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
 85 90 95

Ala Tyr Leu Lys Lys Ala Thr Asn Glu Gly Arg Pro Gly Met Ser Lys
 100 105 110

Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp
 115 120 125

Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly
 130 135 140

Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly
 145 150 155 160

Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Ser Tyr Gly
 165 170 175

Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg His Asp Phe
 180 185 190

Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe
195 200 205

Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu
210 215 220

Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys
225 230 235 240

Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser
245 250 255

His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val
260 265 270

Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val Gln Leu Ala
275 280 285

Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu
290 295 300

Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro
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Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val Thr Ala Ala
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Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
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<210> 7
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<212> DNA
<213> Artificial Sequence

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<223> synthetic oligonucleotide

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aatagaatcg agttaaaagg tattgatttt aaagaagatg gaaacattct tggacacaaa 420
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atcaaagtta acttcaaaat tagacacaac attgaagatg gaggcgttca actagcagac 540
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tatctcaaaa aagctactaa tgag 1044

<210> 8
<211> 348
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

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20 25 30
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
50 55 60
Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
65 70 75 80
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
100 105 110
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
115 120 125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn

130	135	140
Tyr 145	Asn Ser His Asn Val 150	Tyr Ile Met Ala Asp 155 Lys Gln Lys Asn Gly 160
Ile Lys Val	Asn Phe 165 Lys Ile Arg His Asn 170	Ile Glu Asp Gly Gly 175 Val
Gln Leu Ala	Asp 180 His Tyr Gln Gln Asn 185	Thr Pro Ile Gly Asp 190 Gly Pro
Val Leu Leu 195	Pro Asp Asn His Tyr 200	Leu Ser Thr Gln Ser 205 Ala Leu Ser
Lys Asp 210	Pro Asn Glu Lys Arg 215	Asp His Met Val Leu 220 Leu Gly Phe Val
Thr Ala Ala Gly Ile 225	Thr His Gly Met Asp 235	Glu Leu Tyr Lys Leu Glu 240
Asn Ser Thr Met 245	Gly Asp Val Glu Lys Gly 250	Lys Lys Ile Phe Ile Met 255
Lys Cys Ser 260	Gln Cys His Thr Val Glu 265	Lys Gly Gly Lys His 270 Lys Thr
Gly Pro Asn 275	Leu His Gly Leu Phe 280	Gly Arg Lys Thr Gly 285 Gln Ala Pro
Gly Tyr Ser Tyr Thr Ala 290	Ala 295 Asn Lys Asn Lys Gly 300	Ile Ile Trp Gly
Glu Asp Thr Leu Met 305	Glu Tyr Leu Glu Asn 315	Pro Lys Lys Tyr Ile Pro 320
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Asp Leu Ile Ala 340	Tyr Leu Lys Lys Ala 345	Thr Asn Glu

<210> 9
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 <212> DNA
 <213> Artificial Sequence

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 <223> synthetic oligonucleotide

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tcaagatacc cagatcatat gaaacggcat gactttttca agagtgccat gcccgaaggt 600
tatgtacagg aaagaactat atttttcaaa gatgacggga actacaagac acgtgctgaa 660
gtcaagtttg aaggtgatac ctttgttaat agaatcgagt taaaagggtat tgattttaaa 720
gaagatggaa acattcttgg acacaaattg gaatacaact ataactcaca caatgtatac 780
atcatggcag acaaacaaaa gaatggaatc aaagttaact tcaaaattag acacaacatt 840
gaagatggag gcgttcaact agcagaccat tatcaacaaa atactccaat tggcgatggc 900
cctgtccttt taccagacaa ccattacctg tccacacaat ctgccctttc gaaagatccc 960
aacgaaaaga gagaccacat ggtccttctt ggctttgtaa cagctgctgg gattacacat 1020
ggcatggatg aactatacaa a 1041

<210> 10
<211> 347
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 10

Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
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Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
20 25 30

Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
35 40 45

Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
50 55 60

Leu Met Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro Gly Thr Lys
65 70 75 80

Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
 85 90 95

Ala Tyr Leu Lys Lys Ala Thr Asn Glu Gly Arg Pro Gly Met Ser Lys
 100 105 110

Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp
 115 120 125

Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly
 130 135 140

Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly
 145 150 155 160

Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Ser Tyr Gly
 165 170 175

Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg His Asp Phe
 180 185 190

Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe
 195 200 205

Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu
 210 215 220

Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys
 225 230 235 240

Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser
 245 250 255

His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val
 260 265 270

Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val Gln Leu Ala
 275 280 285

Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu
 290 295 300

Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro
 305 310 315 320

Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val Thr Ala Ala
 325 330 335

Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
340 345

<210> 11
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer

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<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer

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<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer

<400> 13
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<212> DNA
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<223> Synthetic oligonucleotide primer

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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer

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